

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
IBM/273SERIAL NO.
10/767,039INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.98(b))

APPLICANT
Toshiharu Furukawa et al.FILING DATE
January 29, 2004GROUP
2814

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PC	A.A	6	2	5	0	9	8	4	6/26/2001	Jin et al.	445	51	1/25/1999
PC	A.B	6	4	2	3	5	8	3	7/23/2002	Avouris et al.	438	132	1/3/2001
PC	A.C	6	5	1	5	3	2	5	2/4/2003	Famworth et al.	257	296	3/6/2002
PC	A.D	6	8	5	8	8	9	1	2/22/2005	Famworth et al.	257	296	12/9/2002
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PC	A.R	Furukawa et al., <u>United States Patent Application Publication No. US 2005/0179029</u> , Publication Date: August 18, 2005					
PC	A.S	Y.Zhao, et al., "Film growth of pillars of multi-walled carbon nanotubes", <u>J.Phys.: Condens. Matter 15 (2003) L565-L569</u>					
PC	A.T	Zhang, et al., "Electric-field-directed growth of aligned single-walled carbon nanotubes", <u>Applied Physics Letters, Volume 79, Number 19, 5 November 2001</u>					

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PC	B.S	C-H. Kiang, "Growth of Larger-Diameter Single-Walled Carbon Nanotubes", J.Phys. Chem. A 2000, 104, 2454-2456
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<i>PC</i>	C.R	Y.Mo, et al, "The growth mechanism of carbon nanotubes from thermal cracking of acetylene over nickel catalyst supported on alumina." 2001 Elsevier Science B.V.					
<i>PC</i>	C.S	M.Jung, et al, "Growth of carbon nanotubes by chemical vapor deposition," 2001 Elsevier Science B.V.					
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<i>PC</i>	D.R	H.Cui, et al, "Growth behavior of carbon nanotubes on multilayered metal catalyst film on chemical vapor deposition". <u>Chemical Physics Letters 374 (2003) 222-228</u>
<i>PC</i>	D.S	J.Li, et al, AHighly-ordered carbon nanotube arrays for electronics applications". <u>Applied Physics Letters, Vol 75, Number 3, 19 July 1999, pp. 367-369</u>
<i>PC</i>	D.T	Furukawa et al., <u>United States Patent Application No. US2005/O130341</u> , Publication Date: June 16, 2005

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PC	E.S.	V. Derycke, et al., "Carbon Nanotube Inter- and Intra molecular Logic Gates," Nano Letters, xxxx Vol.0, No 0 A-D (Received August 16, 2001)					
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PC	F.R	S.J. Wind et al., "Vertical Scaling of Carbon Nanotube Field-Effect Transistors Using Top Gate Electrodes, Applied Physics Letters, Vol. 80, Number 20, May 20, 2002, pp. 3817-3819
PC	F.S	Z.F. Ren, "Growth, Characterization, and Potential Applications of Periodic Carbon Nanotube Arrays", Dept of Physics, Boston College. Updated, 2001.
PC	F.T	Jun Li, et al, "Bottom-up approach for carbon nanotube interconnects", NASA Ames Research Center, Moffett Field, CA. Rec'd 5. December 2002, accepted 31 January 2003

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PC	G.S	Battelle No 12132, "Carbon Nanotube Arrays: Synthesis of Dense Arrays of Well-Aligned Carbon Nanotubes Completely Filled with Titanium Carbide on Titanium Substrates"					
PC	G.T	Aileen Chang, et al, "Integration of Nanotubes into Devices", National Nanofabrication Users Network, page 58, Stanford Nanofabrication Facility, p. 58					
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PC	H.R	Z.Huang, et al. "Growth of highly oriented carbon nanotubes by plasma-enhanced hot filament chemical vapor deposition". <u>Applied Physics Letters</u> , Vol 73, Number 26, 28 December 1998, pp. 3845-3847
PC	H.S	Furukawa et al., <u>United States Patent Application Publication No. US 2005/0167655</u> , Publication Date: August 4, 2005
PC	H.T	Z.F.Ren, et al, "Synthesis of Large Arrays of Well-Aligned Carbon Nanotubes on Glass", <u>Science</u> , Vol 282, 6 November 1998, 1105-1107

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PC	I.S	Won Bong Choi, et al, "Ultrahigh density nanotransistors by using selectively grown vertical carbon nanotubes", <u>Applied Physics Letters</u> , Volume 79, Number 22, 26 November 2001					
PC	I.T	Bo Zheng, et al, "Efficient CVD Growth of Single-Walled Carbon Nanotubes on Surfaces Using Carbon Monoxide Precursor", <u>Nano Letters</u> , xxxx Vol.0, No 0 A-D, American Chemical Society revised June 26, 2002					
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PC	J.T	"IBM Scientists Develop Carbon Nanotube Transistor Technology," IBM.com News - news report concerning work published in Science, Vol. 292, Issue 5517, April 27, 2001 entitled "Engineering Carbon Nanotubes and Nanotube Circuits Using Electrical Breakdown," by Phaeton Avouris et al.

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